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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,317	07/15/2003	Yunping Li	BBRI-2008US01	7947
7590 08/03/2006			EXAMINER	
Kevin M. Farrell			SPIVACK, PHYLLIS G	
Pierce Atwood		•		
Suite 350			ART UNIT	PAPER NUMBER
One New Hampshire Avenue			1614	
Portsmouth, NH 03801			DATE MAILED: 08/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	·				
		10/620,317	LI ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Phyllis G. Spivack	1614					
	The MAILING DATE of this communication	on appears on the cover	sheet with the correspondence a	address				
Period fo	• •							
WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR F CHEVER IS LONGER, FROM THE MAILII asions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicate period for reply is specified above, the maximum statutory te to reply within the set or extended period for reply will, by eply received by the Office later than three months after the end patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COI CFR 1.136(a). In no event, howev ion. period will apply and will expire S statute, cause the application to	MMUNICATION. er, may a reply be timely filed IX (6) MONTHS from the mailing date of this become ABANDONED (35 U.S.C. § 133).					
Status								
1)⊠	Responsive to communication(s) filed on	22 May 2006.						
,	•	This action is non-final						
3)	· ' -							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
·	4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
· · · · · · · · · · · · · · · · · · ·	6)⊠ Claim(s) <u>1-11</u> is/are rejected.							
7)	r) ☐ Claim(s) is/are objected to.							
8)[8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
	· The specification is objected to by the Exa	aminer						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
, —	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)[The oath or declaration is objected to by t	he Examiner. Note the	attached Office Action or form F	PTO-152.				
Priority u	nder 35 U.S.C. § 119		·					
12) 🗌 .	Acknowledgment is made of a claim for fo	oreign priority under 35 l	J.S.C. § 119(a)-(d) or (f).					
a)[a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
	•							
Attachment		_						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94		nterview Summary (PTO-413) aper No(s)/Mail Date					
3) Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/ r No(s)/Mail Date	SB/08) 5) 🔲 N	lotice of Informal Patent Application (Pother:	PTO-152)				

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Applicants' Response filed May 22, 2006 is acknowledged. Claims 1-11 remain under consideration. Independent claims 1 and 5 are presently limited to the kinase inhibitors U0126, PD98059 and PD18432. A Declaration under 37 CFR 1.132 filed May 22, 2006 is further acknowledged.

In the last Office Action it was asserted the title of the invention is not descriptive because it was not clearly indicative of the invention to which the claims are directed. The abstract of the disclosure was also objected to because the abstract is no longer limited to the subject matter that is presently claimed. No indication of an amendment to the abstract is noted. Accordingly, the objection to the disclosure is maintained.

In the last Office Action claims 1-12 and 16-19 were rejected under 35 U.S.C. 102(a) as being anticipated by Li et al., <u>Anesthesiology</u>.

In response a Declaration under 37 CFR 1.132 by Kathleen Morgan has been submitted. The Declaration incorrectly states that the outstanding Office Action is based on the Examiner's impression that the invention was conceived by an inventive entity other than those named in the instant application. Ms. Morgan further asserts the rejection of record under 35 U.S.C. 102(a) is based on the belief that all of the named persons in Li et al., Anesthesiology, had conceived aspects of the invention as claimed.

This is an incorrect characterization of the Office Action. The Examiner makes no claim as to who conceived aspects of the present invention or who contributed whatever subject matter to the reference. Taken as a whole, the reference was applied because it teaches the subject matter of claims 1-11. Eliminating Sabah Malek and Hyun-Dong Je as contributors of the present invention appears to be the intention of the

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submitted Declaration. Because this is clearly stated by Applicants' attorney on page 6 of the Response filed May 22, 2006, a corrected Declaration is not needed.

In view of the Declaration, the rejection of record under 35 U.S.C. 102(a) is withdrawn.

Claims 1-11 were rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The claims were directed to the prevention or delaying of preterm uterine contractions in a pregnant mammal comprising administering a compound that inhibits kinase activity such that a decrease in the levels of both phosphorylated ERK and phosphorylated caldesmon in the pregnant mammal is achieved.

Subsequent to the deletion of the term "preventing", this rejection of record is withdrawn.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 and 5-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Nohara et al., Biochemical and Biophysical Research Communications.

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Nohara teaches the administration of the MEK inhibitor PD98059 to cultured pregnant rat uterine cells obtained at day 21 before the onset of labor (preterm). Pretreatment of cells with this MEK inhibitor completely inhibited both oxytocin- and EGF-induced tyrosine phosphorylation of MAP kinase. See Figure 2A where PD98059 immediately inhibited the oxytocin-induced uterine contraction as compared to non-administration of the MEK inhibitor. See page 942, lines 9-11.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nohara et al., <u>Biochemical and Biophysical Research Communications</u>, in view of Oldenhof et al., <u>Am. J. Physiology</u>.

Nohara teaches the administration of the MEK inhibitor PD98059 to cultured pregnant rat uterine cells obtained at day 21 before the onset of labor (preterm). Pretreatment of cells with this MEK inhibitor completely inhibited both oxytocin- and EGF-induced tyrosine phosphorylation of MAP kinase. See Figure 2A where PD98059 immediately inhibited the oxytocin-induced uterine contraction as compared to non-administration of the MEK inhibitor. See page 942, lines 9-11. Nohara fails to mention the selective MAPK inhibitor U-0126. However, Oldenhof teaches the inhibitors PD-98059 and U-0126 as exhibiting essentially equivalent activity with respect to MAPK inhibition, specificity to the ERK pathway and to their response to stretch (as that

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imposed on the uterine wall by a growing fetus). Oldenhof teaches a role for mechanical factors in the induction of MAPK activity in the pregnant myometrium. Therefore, in view of the combined teachings of Nohara and Oldenhof, one skilled in the obstetrical art would have been motivated to administer a MAPK inhibitor such as PD-98059 or U-126 to delay preterm uterine contractions. Such would have been obvious in the absence of evidence to the contrary because the prior art references teach an inhibition of preterm uterine contractions following the administration compounds such as PD-98059 and U-1026 that inhibit the activity of the mitogen-activated protein kinase enzyme system.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Phyllis G. Spivack whose telephone number is 571-272-0585. The Examiner can normally be reached from 10:30 to 7 PM.

If attempts to reach the Examiner by telephone are unsuccessful after one business day, the Examiner's supervisor, Ardin Marschel, can be reached 571-272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

July 29, 2006

Phyllis Spivack
PHYLLIS SPIVACK

614 PRIMARY EXAMINER

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